

KARIN J. IMMERGUT (OSB No. 96314)
United States Attorney
District of Oregon

JIM SUTHERLAND (OSB No. 68160)
jim.sutherland@usdoj.gov
Assistant United States Attorney
1000 S.W. Third Avenue, Suite 600
Portland, OR 97204-2902
(503) 727-1194 (tel) / (503) 727-1117 (fax)

RONALD J. TENPAS
Assistant Attorney General
MARK A. NITCZYNSKI (CSB 20687)
mark.nitczynski@usdoj.gov
U.S. Department of Justice/ENRD
1961 Stout Street - 8th Floor
Denver, CO 80294
(303) 844-1498 (tel)/(303) 844-1350 (fax)

MEREDITH L. FLAX (DCB 468016)
meredith.flax@usdoj.gov
U.S. Department of Justice
Environment & Natural Resources Division
Wildlife & Marine Resources Section
Ben Franklin Station, P.O. Box 7369
Washington, D.C. 20044-7369
(202) 305-0404 (tel) / (202) 305-0275 (fax)

Attorneys for Federal Defendants

UNITED STATES DISTRICT COURT
DISTRICT OF OREGON

NORTHWEST ENVIRONMENTAL
ADVOCATES, a non-profit corporation,

Civ. No. 05-1876-HA

Plaintiff,

v.

UNITED STATES' NOTICE OF FILING
U.S. FISH AND WILDLIFE SERVICE'S
SUPPLEMENTAL ADMINISTRATIVE
RECORD AND INDEX

UNITED STATES ENVIRONMENTAL
PROTECTION AGENCY, NATIONAL
MARINE FISHERIES SERVICE, and
UNITED STATES FISH AND WILDLIFE
SERVICE,

Defendants.

Notice is hereby provided to the Court and the parties that the United States is hereby filing the United States Fish and Wildlife Service's ("FWS") certified index of its supplemental administrative record, in accordance with the Court's Order of January 7, 2008. See Docket No. 134. The Certification of Supplemental Administrative Record for the U.S. Fish and Wildlife Service's Biological Opinion and the index are attached hereto as Attachment A.^{1/}

Pursuant to Local Civil Rule 100.4(f), FWS' supplemental administrative record will not be filed using the Court's Electronic Case Filing system. Accordingly, notice also is provided that, on March 21, 2008, one CD-ROM containing FWS' supplemental administrative record

^{1/} The United States also is submitting herewith a log of the documents that were excluded from FWS' supplemental record. The log is attached hereto as Attachment B. The United States expressly reserves all defenses to any assertion that any documents listed on the log should be included in FWS' supplemental record.

will be sent to the Court for filing. A copy of the CD-ROM also is being mailed today to counsel identified on the Certificate of Service.

Respectfully submitted,

RONALD J. TENPAS
Acting Assistant Attorney General
Environment & Natural Resources Division

/s/ Mark A. Nitzynski
MARK A. NITCZYNSKI (CSB 20687)
U.S. Department of Justice/ENRD
1961 Stout Street - 8th Floor
Denver, CO 80294
(303) 844-1498
E-mail: mark.nitzynski@usdoj.gov

/s/ Meredith L. Flax
MEREDITH L. FLAX (DCB 468016)
United States Department of Justice
P.O. Box 7369
Washington, DC 20044-7369
(202) 305-0404
E-mail: meredith.flax@usdoj.gov

Attorneys for United States of America

Dated: March 21, 2008

CERTIFICATE OF SERVICE

I hereby certify that on March 21, 2008, I caused a true copy of the foregoing UNITED STATES' NOTICE OF FILING U.S. FISH AND WILDLIFE SERVICE'S SUPPLEMENTAL ADMINISTRATIVE RECORD AND INDEX (with attachments) to be served on each of the following counsel in the manner indicated below:

Melissa Powers
PACIFIC ENVIRONMENTAL
ADVOCACY CENTER
10015 S.W. Terwilliger Blvd.
Portland, OR 97219
powers@clark.edu

☐ Via Hand Delivery
☐ Via E-mail
☐ Via First-Class mail, postage pre-paid
☐ Via Overnight Mail
☒ Court notice of electronic filing via
CM/ECF

Alison LaPlante
PACIFIC ENVIRONMENTAL
ADVOCACY CENTER
10015 S.W. Terwilliger Blvd.
Portland, OR 97219
laplante@clark.edu

☐ Via Hand Delivery
☐ Via E-mail
☐ Via First-Class mail, postage pre-paid
☐ Via Overnight Mail
☒ Court notice of electronic filing via
CM/ECF

Karen Moynahan
Oregon Department of Justice
1162 Court St., NE
Salem, OR 97301-4096
karen.moynahan@doj.state.or.us

☐ Via Hand Delivery
☐ Via E-mail
☐ Via First-Class mail, postage pre-paid
☐ Via Overnight Mail
☒ Court notice of electronic filing via
CM/ECF

Laura Maffei, R.G.
Attorney at Law
Schwabe Williamson & Wyatt
1211 SW 5th Ave., Suites 1600-1900
Portland, OR 97204
Lmaffei@SCHWABE.com

☐ Via Hand Delivery
☐ Via E-mail
☐ Via First-Class mail, postage pre-paid
☐ Via Overnight Mail
☒ Court notice of electronic filing via
CM/ECF

/s/ Mark A. Nitczynski
MARK A. NITCZYNSKI

ATTACHMENT A

KARIN J. IMMERGUT (OSB No. 96314)

United States Attorney

District of Oregon

STEPHEN J. ODELL

Assistant United States Attorney

United States Attorney's Office

District of Oregon

1000 S.W. Third Avenue, Suite 600

Portland, OR 97204-2902

(503) 727-1000 (tel) / (503) 727-1117 (fax)

kelly.zusman@usdoj.gov

RONALD J. TENPAS

Assistant Attorney General

MARK A. NITCZYNSKI (CSB 20687)

mark.nitczynski@usdoj.gov

U.S. Department of Justice/ENRD

1961 Stout Street - 8th Floor

Denver, CO 80294

(303) 844-1498 (tel)/(303) 844-1350 (fax)

MEREDITH L. FLAX (DCB 468016)

meredith.flax@usdoj.gov

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Ben Franklin Station, P.O. Box 7369

Washington, D.C. 20044-7369

(202) 305-0404 (tel) / (202) 305-0275 (fax)

Attorneys for Federal Defendants

UNITED STATES DISTRICT COURT
DISTRICT OF OREGON

NORTHWEST ENVIRONMENTAL ADVOCATES, a
non-profit corporation,

Plaintiff,

v.

UNITED STATES ENVIRONMENTAL PROTECTION
AGENCY, NATIONAL MARINE FISHERIES
SERVICE, and UNITED STATES FISH AND
WILDLIFE SERVICE,

Defendants.

Civ. No. 05-1876-HA

CERTIFICATION OF
SUPPLEMENTAL
ADMINISTRATIVE RECORD
FOR THE U.S. FISH AND
WILDLIFE SERVICE'S
BIOLOGICAL OPINION

I, Elizabeth Materna, declare as follows:

1. I am employed as a fish and wildlife biologist for the U.S. Fish and Wildlife Service (FWS) in the Oregon Fish and Wildlife Office, located in Portland, Oregon.
2. My duties include assembling and maintaining the administrative record for the FWS's biological opinion on the Environmental Protection Agency's proposed approval of revised Oregon water quality standards for temperature, intergravel dissolved oxygen, and antidegradation, dated February 24, 2004. I certify that the documents listed on the index filed herewith, together with the FWS record documents previously filed with the Court, comprise the complete administrative record for this biological opinion in accordance with this Court's Order of January 7, 2008, as determined to the best of my ability.
3. I make this declaration pursuant to 28 U.S.C. § 1746. I declare under penalty of perjury that the foregoing is true and correct to the best of my knowledge.

Executed on March 18, 2008, at Portland, Oregon.

Elizabeth Materna

ELIZABETH MATERNA

Supplemental to Administrative Record for the Fish and Wildlife Service Biological Opinion for EPA's Proposed Approval of Revised Oregon Water Quality Standards for Temperature, Intergravel Dissolved Oxygen, and Antidegradation

| Hyperlink | Bate Stamp Range | Date of Document | Description |
|--|-------------------------|-------------------------|--|
| Biological Opinion Documents | | | |
| 266 | 07604-07605 | 12/2/2003 | FWS comments on the Analysis of Effects on Draft Biological Evaluation (BE) |
| 267 | 07606-07620 | Nov-03 | Designated Use Maps |
| 268 | 07621-07622 | 10/8/2003 | Draft Where and When Comments (Fish Use Maps and Tables) |
| 269 | 07623-07625 | 10/6/2003 | Comments on Final Draft Biological Assessment (BA) by Elizabeth Materna, FWS |
| 270 | 07626-07628 | 10/1/2003 | Draft FWS Comments on Oregon Proposed Rule |
| 271 | 07629-07630 | 9/17/2003 | Elizabeth Materna, FWS Handwritten Notes from conversation with Chris Allen, FWS |
| 272 | 07631-07632 | 9/2/2003 | Comments by Elizabeth Materna, FWS, on draft BA for EPA's Promulgation WQ Standards for Oregon |
| 273 | 07633-07634 | 8/28/2003 | Elizabeth Materna, FWS, Handwritten Notes from Where and When Conference Call |
| 274 | 07635-07635 | 8/20/2003 | Elizabeth Materna, FWS, comments on Analysis of Effects Dry Run |
| 275 | 07636-07638 | 8/6/2003 | Elizabeth Materna, FWS, Handwritten notes on Where and When Conference Call |
| 276 | 07639-07640 | 8/6/2003 | Final Draft of Decision Rules to Designate Pacific Salmon and Bull Trout Beneficial Uses in Oregon |
| 277 | 07641-07643 | 8/5/2003 | Final Draft of Decision Rules to Designate Pacific Salmon and Bull Trout Beneficial Uses in Oregon |
| 278 | 07644-07645 | 7/30/2003 | Elizabeth Materna, FWS, Handwritten notes on Where and When Conference Call |
| 279 | 07646-07726 | 7/21/2003 | Draft Department of Environmental Quality Water Pollution Division 41 Water Quality Standards Beneficial Uses, Policies and Criteria for Oregon |
| 280 | 07727-07727 | 7/15/2003 | Elizabeth Materna, FWS, comments on Draft Biological Assessment (BA) |
| 281 | 07728-07729 | 7/11/2003 | Decision Rule Assumptions to Date |
| 282 | 07730-07745 | 7/7/2003 | Draft Bull Trout Critical Habitat Maps with handwritten notes |
| 283 | 07746-07774 | 7/7/2003 | Draft Oregon Temperature Criteria |
| 284 | 07775-07775 | 6/10/2003 | Elizabeth Materna, FWS, Handwritten Notes |
| 285 | 07776-07866 | Jan-03 | Draft US Fish and Wildlife Service (USFWS) Biological Opinion (BO) for EPA Approval of Oregon Water Quality Standards |
| 286 | 07867-07871 | No Date | Elizabeth Materna, FWS, Handwritten Notes on Basin Timing |
| 287 | 07872-07872 | No Date | Elizabeth Materna, FWS, Handwritten Notes |
| 288 | 07873-07884 | No Date | Hood River Map Revisions |
| 289 | 07885-07885 | No Date | Elizabeth Materna, FWS, Handwritten Notes from discussion with Janine Castro, FWS |
| 290 | 07886-07890 | No Date | John Day Bull Trout Core Area Maps with handwritten notes from Elizabeth Materna, FWS |
| 291 | 07891-07892 | No Date | Elizabeth Materna, FWS, Handwritten notes on Effects Analysis |
| 292 | 07893-07899 | No Date | Table of Bull Trout Effects at various temp. |
| 293 | 07900-07943 | No Date | Draft USFWS Biological Opinion for EPA Approval of Oregon Water Quality Standards |
| Biological Opinion Email Messages | | | |
| 294 | 07944-07944 | 2/11/2004 | EMail from David Leal, FWS, to Elizabeth Materna, FWS, Subject: Paul Bridges, FWS, status of the species for bull trout/Oregon chub, with 1 attachment |

| Hyperlink | Bate Stamp Range | Date of Document | Description |
|---------------------|------------------|------------------|--|
| 295 | 07945-08008 | 2/11/2004 | Attachment 1: Status of the Species, Oregon Chub |
| 296 | 08009-08009 | 2/9/2004 | EMail from Jennifer Lord, FWS, to Elizabeth Materna, FWS, Subject: Review of Oregon chub information |
| 297 | 08010-08010 | 1/29/2004 | Email from Jeff Lockwood, NOAA, to Mark Charles, ODEQ, et al., Subject: DEQ Temperature Letter No. 2 |
| 298 | 08011-08012 | 1/22/2004 | Email from Cathy Tortorici, NOAA, to John Palmer, EPA, et al., Subject: Revised conservation Measure #1 (slight date change) |
| 299 | 08013-08013 | 12/19/2003 | EMail from Emily Smith, DEQ, to Chris Mebane, NOAA, et al., Subject: DEQ Response to Public Comment Summary, with 1 attachment |
| 300 | 08014-08061 | 12/19/2003 | Attachment 1: Attachment B Division 41 Revisions Response to Public Comment (11-10-03) |
| 301 | 08062-08062 | 12/18/2003 | EMail from Debra Sturdevant, DEQ, to Chris Mebane, NOAA, et al., Subject: Environmental Quality Commission adopts Temperature Rule |
| 302 | 08063-08064 | 12/17/2003 | EMail from Dru Keenan, EPA, to Elizabeth Materna, FWS, Subject: Draft Conservation Measures Please Review, with 2 attachments. |
| 303 | 08065-08066 | 12/17/2003 | Attachment 1: Re-draft of Conservation Measures based on December 11th conference call |
| 304 | 08067-08068 | 12/17/2003 | Attachment 2: 12/15/03 Draft of Conservation Measures based on December 11th conference call |
| 305 | 08069-08071 | 12/17/2003 | EMail from Dru Keenan, EPA, to Elizabeth Materna, FWS, Subject: Oregon Clarification Letter, with 1 attachment |
| 306 | 08072-08073 | 12/17/2003 | Attachment 1: 12/15/03 Draft of Conservation Measures based on December 11th conference call |
| 307 | 08074-08076 | 12/16/2003 | Email from Elizabeth Materna, FWS, to John Palmer, EPA, et al., Subject: Oregon Clarification Letter with 1 attachment |
| 308 | 08077-08078 | 12/16/2003 | Attachment 1: Re-draft of Conservation Measures Dec 15, 2003 |
| 309 | 08079-08079 | 12/11/2003 | EMail from Chris Allen, FWS, to Elizabeth Materna, FWS, Subject: bull trout status of the species, with 1 attachment |
| 310 | 08080-08119 | 12/11/2003 | Attachment 1: Status of Species Critical Habitat, Bull Trout |
| 311 | 08120-08120 | 12/11/2003 | EMail from Chris Allen, FWS, to Elizabeth Materna, FWS, Subject: Chapter 1 on Bull Trout Development, with 1 attachment |
| 312 | 08121-08267 | 12/11/2003 | Attachment 1: Bull Trout Draft Recovery Plan, Chapter 1 Introductory, October 2002 |
| 313 | 08268-08271 | 12/4/2003 | Email from Dru Keenan, EPA, to Elizabeth Materna, FWS, Subject: decision rules |
| 314 | 08272-08272 | 11/24/2003 | EMail from Debra Sturdevant, DEQ, to Larry Knudsen, OSU, et al, Subject: Possible bull trout criteria revision, with 1 attachment |
| 315 | 08273-08276 | 11/24/2003 | Attachment 1: Bull trout changes |
| 316 | 08277-08277 | 11/24/2003 | EMail from Debra Sturdevant, DEQ, to Larry Knudsen, OSU, et al., Subject: Possible bull trout criteria revision, with 1 attachment |
| 317 | 08278-08281 | 11/24/2003 | Attachment 1: Bull trout changes |
| 318 | 08282-08282 | 11/20/2003 | Email from Jeff Lockwood, NOAA, to Deb Sturdevant, ODEQ, et al., Subject: issue or clarification- protecting cold water |
| 319 | 08283-08288 | 11/4/2003 | Email from Anne Walker, FWS, to Elizabeth Materna, FWS, Subject: Holy Heat Sump, temperature below Clear Branch Dam |
| 320 | 08289-08290 | 11/4/2003 | EMail from Elizabeth Materna, FWS, to Mark Charles, DEQ, et al., Subject: Two more comments on latest Draft of Division 41 11/3/03 |

| Hyperlink | Bate Stamp Range | Date of Document | Description |
|---------------------|------------------|------------------|--|
| 321 | 08291-08291 | 11/3/2003 | EMail from Mark Charles, DEQ to Mark Charles, DEQ, et al., Subject: Latest Draft of Division 41 11/3/03, with 1 attachment |
| 322 | 08292-08396 | 11/3/2003 | Attachment 1: Department of Environmental Quality Water Pollution Division 41 Water Quality Standards, Beneficial Uses, Policies and Criteria for Oregon, 11/03/03 Draft |
| 323 | 08397-08397 | 11/3/2003 | EMail from Elizabeth Materna, FWS, to Mark Charles, DEQ, et al., Subject: Latest Draft of Division 41 11/3/03 |
| 324 | 08398-08398 | 11/3/2003 | EMail from Elizabeth Materna, FWS, to Mark Charles, DEQ, et al., Subject: One other thing in latest draft |
| 325 | 08399-08399 | 11/3/2003 | EMail from Elizabeth Materna, FWS, to Mark Charles, DEQ, et al., Subject: Latest Draft of Division 41 11/3/03 |
| 326 | 08400-08400 | 11/3/2003 | Email from Deb Sturdevant, ODEQ, to Jeff Lockwood, NOAA, et al., Subject: Notes from 10/28 Meeting - Key Unresolved Issues |
| 327 | 08401-08402 | 11/3/2003 | Email from Jeff Lockwood, NOAA, to Deb Sturdevant, ODEQ, et al., Subject: Ecotrust Data |
| 328 | 08403-08403 | 10/31/2003 | EMail from Mark Charles, DEQ, to Marylou Soscia, EPA, et al., Subject: Trick or Treat Draft of Division 41, with 1 attachment |
| 329 | 08404-08503 | 10/31/2003 | Attachment 1: Department of Environmental Quality Water Pollution Division 41 Water Quality Standards, Beneficial Uses, Policies and Criteria for Oregon, 10/31/03 Draft |
| 330 | 08504-08504 | 10/31/2003 | EMail from Mark Charles, DEQ to Paula Vanhaagen, EPA, et al., Subject: Revised section 11, with 1 attachment |
| 331 | 08505-08506 | 10/31/2003 | Attachment 1: Draft revised sections 11&12 |
| 332 | 08507-08507 | 10/31/2003 | Email from Dru Keenan, EPA, to John Palmer, EPA, et al. Subject: Notes from 10/28 Meeting - Key Unresolved Issues, with 1 attachment |
| 333 | 08508-08509 | 10/31/2003 | Draft Meeting Notes from Where & When Meeting |
| 334 | 08510-08510 | 10/30/2003 | Email from Jeff Lockwood, NOAA, to Mark Charles, ODEQ, et al., Subject: Oregon rule language |
| 335 | 08511-08512 | 10/27/2003 | Email from Jeff Lockwood, NOAA, to Deb Sturdevant, ODEQ, et al., Subject: FINAL notes from 10/14 where & when with 1 attachment |
| 336 | 08513-08514 | 10/27/2003 | Attachment 1: Meeting Notes for October 14, 2003 Beneficial Use Group |
| 337 | 08515-08515 | 10/27/2003 | EMail from Mark Charles, DEQ, to Mark Charles, DEQ, et al, Subject: 10/26 Revision of Proposed Division 41 (Temp) Rule, with 1 attachment |
| 338 | 08516-08605 | 10/27/2003 | Attachment 1: Department of Environmental Quality Water Pollution Division 41 Water Quality Standards, Beneficial Uses, Policies and Criteria for Oregon, 10/26/03 Draft |
| 339 | 08606-08607 | 10/24/2003 | Email from Chris Mebane, NOAA, to Jeff Lockwood, NOAA, et al., Subject: Fall chinook spawning/incubation temperature designation, with 2 attachments |
| 340 | 08608-08615 | 10/24/2003 | Attachment 1: Temperature during Incubation as One Factor Affecting the Distribution of Snake River Fall Chinook Salmon Spawning Areas |
| 341 | 08616-08616 | 10/24/2003 | Attachment 2: Salmon & Steelhead Spawning Through Fry Emergence Use Designations Umpqua Basin Oregon Map, August 8, 2003 |
| 342 | 08617-08617 | 10/24/2003 | Email from Chris Mebane, NOAA, to Dru Keenan, EPA, et al., Subject: Temperature analysis, round 2, with 1 attachment |
| 343 | 08618-08624 | 10/24/2003 | Attachment 1: Table with GIS locations |

| Hyperlink | Bate Stamp Range | Date of Document | Description |
|---------------------|------------------|------------------|--|
| 344 | 08625-08625 | 10/17/2003 | EMail from Cedric Cooney, OSU, to Jeff Lockwood, NOAA, et al., Subject: Lines-of-evidence query results - updated as of 10/15/2003 (w/attachment), with 1 attachment |
| 345 | 08626-08657 | 10/17/2003 | Attachment 1: Temperature Standard Table |
| 346 | 08658-08658 | 10/13/2003 | EMail from Debra Sturdevant, DEQ, to Robert Anderson, NOAA et al, Subject: Temperature TAC meeting |
| 347 | 08659-08659 | 10/10/2003 | Email from Chris Mebane, NOAA, to Emily Smith, ODEQ, et al., Subject: NOAA comments on distribution of 16C's in Columbia R subbasins |
| 348 | 08660-08660 | 10/8/2003 | EMail from Tracy Harrison, DEQ, to Jeff Lockwood, NOAA et al., Subject: Comments from ODEQ and ODFW on Where & When mapping issues, with 1 attachment |
| 349 | 08661-08663 | 10/8/2003 | Attachment 1: Internal comments received during comment period; Where and When; 10/08/03 |
| 350 | 08664-08664 | 9/23/2003 | EMail from Emily Smith, DEQ, to Elizabeth Materna, FWS, Subject: John Day corrections |
| 351 | 08665-08665 | 9/22/2003 | EMail from Emily Smith, DEQ, to Elizabeth Materna, FWS, Subject: Bull trout John Day maps |
| 352 | 08666-08666 | 9/18/2003 | EMail from Emily Smith, DEQ, to Elizabeth Materna, FWS, Subject: Bull trout John Day maps |
| 353 | 08667-08667 | 9/10/2003 | EMail from Emily Smith, DEQ to Elizabeth Materna, FWS, Subject: Klamath map, with 2 attachments |
| 354 | 08668-08668 | 9/10/2003 | Attachment 1: Figure 201A/260A; Critical Period Fish Use Designations Powder and Malheur Basins, Oregon; Draft 08/08/03 Map |
| 355 | 08669-08669 | 9/10/2003 | Attachment 2: Figure 180A; Critical Period Fish Use Designations Klamath Basin, Oregon, Draft 08/08/03 Map |
| 356 | 08670-08670 | 8/13/2003 | Email from Chris Mebane, NOAA, to Elizabeth Materna, FWS, et al., Subject: Revised Grande Ronde maps - attached with 2 attachments |
| 357 | 08671-08671 | 8/13/2003 | Attachment 1: Figure 151B: Salmon, Steelhead and Bull Trout Spawning through Fry Emergence Beneficial Use Designation, Grande Ronde Basin |
| 358 | 08672-08672 | 8/13/2003 | Attachment 2: Figure 151A: Critical Period, Fish Use Designations Grande Ronde Basin, Oregon Draft |
| 359 | 08673-08675 | 8/12/2003 | EMail from Debra Sturdevant, DEQ to Elizabeth Materna, FWS, Subject: Powder and Malheur summer max map |
| 360 | 08676-08676 | 8/11/2003 | EMail from Elizabeth Materna, FWS, to Tracy Harrison, DEQ, et al., Subject: Powder and Malheur summer max map, with 1 attachment |
| 361 | 08677-08677 | 8/11/2003 | Attachment 1: Critical Period, Fish Use Designations Powder and Malheur Basins, Oregon, Draft 08/08/03 Map |
| 362 | 08678-08679 | 8/11/2003 | EMail from Tracy Harrison, DEQ, to Elizabeth Materna, FWS Subject: Powder and Malheur summer max map |
| 363 | 08680-08680 | 8/8/2003 | EMail from Tracy Harrison, DEQ, to Chris Mebane, NOAA, et al., Subject: Klamath summer max map, with 1 attachment |
| 364 | 08681-08681 | 8/8/2003 | Attachment 1: Critical Period, Fish Use Designations, Klamath Basin, Oregon, Draft, 08/08/03 Map |
| 365 | 08682-08682 | 8/7/2003 | Salmon Steelhead & Bull Trout Spawning Through Fry Emergence Beneficial Use Designations John Day Basin |
| 366 | 08683-08683 | 8/7/2003 | Salmon Steelhead & Bull Trout Spawning Through Fry Emergence Beneficial Use Designations Umatilla Basin |
| 367 | 08684-08684 | 8/7/2003 | Salmon Steelhead & Bull Trout Spawning Through Fry Emergence Beneficial Use Designations Deschutes Basin |

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| 368 | 08685-08685 | 8/7/2003 | EMail from Tracy Harrison, DEQ to Chris Mebane, NOAA, et al., Subject: Willamette, Mid Coast, and North Coast spawning maps, with 3 attachments |
| 369 | 08686-08686 | 8/7/2003 | Attachment 1: Salmon, Steelhead & Bull Trout Spawning Through Fry Emergence Use Designations Willamette Basin Oregon, Draft, 08/07/03 Map |
| 370 | 08687-08687 | 8/7/2003 | Attachment 2: Salmon & Steelhead Spawning Through Fry Emergence Use Designations Mid Coast Basin, Oregon, Draft 08/07/03 Map |
| 371 | 08688-08688 | 8/7/2003 | Attachment 3: Salmonid Spawning Through Fry Emergence Use Designations North Coast Basin, Oregon, Draft 08/07/03 Map |
| 372 | 08689-08689 | 8/6/2003 | EMail from William Bogue, EPA, to William Bogue, EPA, et al., Subject: Deschutes Summer Max & Umpqua Spawning Maps, with 2 attachments |
| 373 | 08690-08690 | 8/6/2003 | Attachment 1: Preliminary Deschutes Basin Summer Maximum Stream Temperature Criteria for Protection of Salmon and Trout Core Rearing & Migration and Bull Trout Spawning Rearing & Migration Map |
| 374 | 08691-08691 | 8/6/2003 | Attachment 2: Salmon & Steelhead Spawning Through Fry Emergence Use Designations Umpqua Basin Oregon Map |
| 375 | 08692-08692 | 8/6/2003 | EMail from Tracy Harrison, DEQ, to Chris Mebane, NOAA, et al., Subject: Hood Spawning Map, with 1 attachment |
| 376 | 08693-08693 | 8/6/2003 | Attachment 1: Salmonid Spawning & Fry Emergence Use Designations Hood Basin, Oregon, Draft 08/06/03 Map |
| 377 | 08694-08694 | 8/5/2003 | EMail from Debra Sturdevant, DEQ, to John Palmer, EPA, et al., Subject: Final Draft of Where/When Decision Rules, with 1 attachment |
| 378 | 08695-08696 | 8/5/2003 | Attachment 1: Final Draft of Decision Rules to Designate Pacific Salmon and Bull Trout Beneficial Uses in Oregon; 08/05/2003 |
| 379 | 08697-08698 | 8/4/2003 | EMail from Debra Sturdevant, DEQ, to Elizabeth Materna, FWS, Subject: Prime, sub-prime or cooler habitat |
| 380 | 08699-08700 | 7/31/2003 | Email from Dru Keenan, EPA, to Elizabeth Materna, FWS, et al., Subject: NEW ALERT Bull Trout additional criteria provision |
| 381 | 08701-08703 | 7/31/2003 | EMail from Debra Sturdevant, DEQ, to Chris Mebane, NOAA, Subject: Prime, sub-prime, or cooler habitat, possible terms to use for the various temperature categories |
| 382 | 08704-08704 | 7/30/2003 | EMail from Tracy Harrison, DEQ, to Tracy Harrison, DEQ, et al., Subject: Hood Basin Newest Spawning with and without Bull Trout, with 2 attachments |
| 383 | 08705-08705 | 7/30/2003 | Attachment 1: Salmonid Spawning and Fry Emergence Use Designations, Hood Basin Oregon; Draft, 07/30/2003 |
| 384 | 08706-08706 | 7/30/2003 | Attachment 2: Salmonid Spawning and Fry Emergence Use Designations, Hood Basin Oregon; Draft, 07/30/2003 |
| 385 | 08707-08707 | 7/29/2003 | Email from Chris Mebane, NOAA, to Tracy Harrison, ODEQ, et al., Subject: Please respond - Revised decision rules with 1 attachment |
| 386 | 08708-08709 | 7/29/2003 | Attachment 1: Decision Rules for mapping Salmonid Uses, 7/28/03 revision |
| 387 | 08710-08711 | 7/28/2003 | EMail from Chris Mebane, NOAA, to Debra Sturdevant, DEQ, Subject: Bull trout proposal |
| 388 | 08712-08712 | 7/28/2003 | EMail from Jennifer Weaver, DEQ, to Bill Blosser, et al., Subject: Nearly Last Call on Division 41 Revisions, with 1 attachment |

| Hyperlink | Bate Stamp Range | Date of Document | Description |
|---------------------|------------------|------------------|---|
| 389 | 08713-08800 | 7/28/2003 | Attachment 1: Draft #5 (July 28, 2003) DEQ Water Pollution Division 41 State-Wide Water Quality Management Plan; Beneficial Uses, Policies, Standards and Treatment Criteria for Oregon |
| 390 | 08801-08801 | 7/25/2003 | EMail from Emily Smith, DEQ, to William Bogue, EPA et al., Subject: DEQ bull trout information, all 5 attachments are GIS files that are in one PDF file below |
| 391 | 08802-08816 | 7/25/2003 | Attachment: Draft GIS Maps |
| 392 | 08817-08819 | 7/25/2003 | Email from Deb Sturdevant, ODEQ, to John Palmer, EPA, et al., Subject: New Spawning Proposal!!!! |
| 393 | 08820-08820 | 7/24/2003 | EMail from Jennifer Weaver, DEQ, to Bill Blosser, et al., Subject: Division 41 Rewrite with 'HTML Curse' Reversed, with 1 attachment |
| 394 | 08821-08901 | 7/24/2003 | Attachment 1: Draft #4 (July 21, 2003) DEQ Water Pollution Division 41 State-Wide Water Quality Management Plan; Beneficial Uses, Policies, Standards and Treatment Criteria for Oregon |
| 395 | 08902-08903 | 7/23/2003 | Email from John Palmer, EPA, to Chris Mebane, NOAA, et al., Subject: New Spawning Proposal |
| 396 | 08904-08906 | 7/22/2003 | Email from Debra Sturdevant, ODEQ, to Bill Bogue, EPA, et al., Subject: Bull Trout Spawning Mapping & Assigning Values to Diversions |
| 397 | 08907-08908 | 7/22/2003 | Email from Debra Sturdevant, ODEQ, to Bill Bogue, EPA, et al., Subject: bull trout files - FEEDBACK PLEASE! |
| 398 | 08909-08910 | 7/22/2003 | Email from Bill Bogue, EPA, to Emily Smith, ODEQ, et al., Subject: bull trout files - FEEDBACK PLEASE!, 1 attachment |
| 399 | 08911-08911 | 7/22/2003 | Attachment 1: Preliminary John Day Basin Summer Maximum Stream Temperature Criteria for Protection of Salmon & Trout Core Rearing & Migration and Bull Trout Spawning |
| 400 | 08912-08912 | 7/22/2003 | Email from Bill Bogue, EPA, to Debra Sturdevant, ODEQ, et al., Subject: Deschutes Bull Trout Summer Max, 2 attachments |
| 401 | 08913-08913 | 7/22/2003 | Attachment 1: Preliminary Deschutes Basin Summer Max Stream Temp Criteria for Protection of Salmon & Trout Core Rearing & Migration, and Bull Trout Spawning, Rearing & Migration |
| 402 | 08914-08914 | 7/22/2003 | Attachment 2: Preliminary Deschutes Basin Summer Max Stream Temp Criteria for Protection of Salmon & Trout Core Rearing & Migration, and Bull Trout Spawning, Rearing & Migration |
| 403 | 08915-08915 | 7/21/2003 | Email from Bill Bogue, EPA, to Bill Bogue, et al., Subject: John Day & Rogue Maps for Today's conference call, 4 attachments |
| 404 | 08916-08916 | 7/21/2003 | Attachment 1: Preliminary Rogue Basin Maximum Stream Temperature Criteria for Protection of Salmon and Trout Spawning |
| 405 | 08917-08917 | 7/21/2003 | Attachment 2: Preliminary Rogue Basin Summer Max Stream Temperature Criteria for Protection of Salmon & Trout Core Rearing & Migration |
| 406 | 08918-08918 | 7/21/2003 | Attachment 3: John Day Basin Preliminary Application of 13C Max Stream Temperature Criteria to Protect Salmon/Trout Spawning |
| 407 | 08919-08919 | 7/21/2003 | Attachment 4: Preliminary John Day Basin Summer Max Stream Temperature Criteria for Protection of Salmon & Trout Core Rearing & Migration and Bull Trout Spawning |
| 408 | 08920-08920 | 7/16/2003 | EMail from Anne Walker, FWS, to Elizabeth Materna, FWS, Subject: Hood BT map, with 1 attachment |

| Hyperlink | Bate Stamp Range | Date of Document | Description |
|---|------------------|------------------|--|
| 409 | 08921-08921 | 7/16/2003 | Attachment 1: Changes needed to Draft Hood Recovery Unit and Critical Habitat Map for finalization |
| 410 | 08922-08922 | 7/14/2003 | EMail from Mark Charles, DEQ, to Jennifer Weaver, DEQ, et al., Subject: Current New Division 41 Rewrite with Track Changes, with 1 attachment |
| 411 | 08923-08959 | 7/14/2003 | Attachment 1: Draft DEQ Water Pollution Division 41 State-Wide Water Quality Management Plan; Beneficial Uses, Policies, Standards and Treatment Criteria for Oregon; July 14, 2003 (3rd draft) |
| 412 | 08960-08960 | 7/14/2003 | EMail from Mark Charles, DEQ, to Jennifer Weaver, DEQ, et al., Subject: Current New Division 41 Rewrite with Track Changes, with 1 attachment |
| 413 | 08961-08997 | 7/14/2003 | Attachment 1: Draft DEQ Water Pollution Division 41 State-Wide Water Quality Management Plan; Beneficial Uses, Policies, Standards and Treatment Criteria for Oregon; July 14, 2003 (3rd draft) |
| 414 | 08998-08999 | 7/11/2003 | Email from Dru Keenan, EPA, to Cedric Cooney, ODFW, et al., Subject: Decision Rules Justifications/Assumptions- to date; 1 attachment |
| 415 | 09000-09001 | 7/11/2003 | Attachment 1: Decision Rule Assumptions to date |
| 416 | 09002-09003 | 6/25/2003 | Email from Emily Smith, DEQ to William Bogue, EPA and Elizabeth Materna, FWS Subject: ArcView files for the Bull Trout Habitat Use Designations |
| 417 | 09004-09072 | 5/21/2003 | Email from John Palmer, EPA, to Jeffrey Lockwood, NOAA, et al., Subject: Agenda for Where/When Meeting 5/27-28; 5 attachments Attachment 1: draft Agenda Attachment 2: Trail Map Attachment 3: Oregon Options Recommendations Attachment 4: Life stage inventory Attachment 5: OFWO complete manual |
| Temperature Project Email Messages | | | |
| 418 | 09073-09073 | 4/28/2003 | EMail from John Palmer, EPA, to Dave Mabe, IDEQ, et al., Subject: Final Temperature Guidance, with 4 attachments |
| 419 | 09074-09129 | 4/28/2003 | Attachment 1: EPA Final Guidance for Pacific NW State and Tribal Temperature Water Quality Standards; April 2003 |
| 420 | 09130-09132 | 4/28/2003 | Attachment 2: NOAA support letter to EPA; April 23, 2003 |
| 421 | 09133-09135 | 4/28/2003 | Attachment 3: FWS support letter to EPA; April 21, 2003 |
| 422 | 09136-09137 | 4/28/2003 | Attachment 4: EPA Issues Final Water Temperature Guidance; April 2003 |
| 423 | 09138-09138 | 2/26/2003 | EMail from John Palmer, EPA, to Dave Mabe, IDEQ, et al., Subject: 2-pager for Temperature Call today, with 1 attachment |
| 424 | 09139-09141 | 2/26/2003 | Attachment 1: Determining the Spatial Extent of the Recommended Salmonid Uses |
| 425 | 09142-09142 | 2/3/2003 | EMail from Jim Muck, FWS, to John Palmer, EPA, Subject: Reply to comments, with 1 attachment |
| 426 | 09143-09144 | 2/3/2003 | Attachment 1: EPA has not demonstrated that human influences on temperature is a problem for fish populations as a whole |
| 427 | 09145-09146 | 1/23/2003 | EMail from John Palmer, EPA, to Dave Mabe, IDEQ, et al., Subject: Temperature Meeting Agenda & other materials, with 5 attachments |
| 428 | 09147-09147 | 1/23/2003 | Attachment 1: EPA Temperature Guidance Meeting Draft Agenda |
| 429 | 09148-09154 | 1/23/2003 | Attachment 2: Section VI & mixing zone provisions to protect salmonids |
| 430 | 09155-09159 | 1/23/2003 | Attachment 3: Possible changes to temperature guidance, draft, 01/16/02 |

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| 431 | 09160-09169 | 1/23/2003 | Attachment 4: Summary of Scientific Peer Review Discussion concerning US EPA Region 10 Guidance for stream temperature water quality standards, December 3, 2002 |
| 432 | 09170-09176 | 1/23/2003 | Attachment 5: Major comments (categorized) on 2nd draft of temperature guidance; 1/7/03 |
| 433 | 09177-09177 | 1/16/2003 | EMail from John Palmer, EPA, to Dave Mabe, IDEQ. et al., Subject: Temp Materials (Changes, Peer Review, Comment Sum), with 3 attachment(s). |
| 434 | 09178-09182 | 1/16/2003 | Attachment 1: Possible Changes to Temperature Guidance draft, 1/16/02 |
| 435 | 09183-09192 | 1/16/2003 | Attachment 2: Summary of Scientific Peer Review Discussion concerning US EPA Region 10 Guidance for stream temperature water quality standards, December 3, 2002 |
| 436 | 09193-09199 | 1/16/2003 | Attachment 3: Major Comments (categorized) on 2nd Draft of Temperature Guidance; 1/7/03 |
| 437 | 09200-09200 | 11/26/2002 | EMail from John Palmer, EPA to Dru Keenan, EPA, et al., Subject: Peer Review Questions, with 2 attachments |
| 438 | 09201-09203 | 11/26/2002 | Attachment 1: Questions for the Scientific Peer Review Panel EPA's 2nd Draft Temperature Guidance; 11/26/2002 |
| 439 | 09204-09221 | 11/26/2002 | Attachment 2: EPA Region 10 Draft Temperature Guidance Overview of 2nd public review draft |
| 440 | 09222-09222 | 9/30/2002 | EMail from John Palmer, EPA, to Dave Mabe, IDEQ, et al., Subject: Changes to Temperature Guidance, with 1 attachment |
| 441 | 09223-09232 | 9/30/2002 | Attachment 1: EPA, Discussion of Use and Criteria Presented in Table 3 |
| 442 | 09233-09233 | 9/30/2002 | EMail from Shelley Spalding, FWS, to John Palmer, EPA, Subject: Bull Trout Peer Review, with 1 attachment |
| 443 | 09234-09247 | 9/30/2002 | Attachment 1: Bull Trout Temperature Threshold peer review summary; September 19, 2002 |
| 444 | 09248-09249 | 9/16/2002 | EMail from Shelley Spalding, FWS, to John Palmer, EPA, Subject: Comments on revised temperature guidance |
| 445 | 09250-09250 | 8/29/2002 | EMail from John Palmer, EPA, to D. Mabe, DEQ, et al., Subject: Revised Temperature Guidance, with 1 attachment |
| 446 | 09251-09280 | 8/29/2002 | Attachment 1: EPA 2nd Draft for State and Tribal Temperature Water Quality Standards; August 29, 2002 |
| 447 | 09281-09282 | 8/8/2002 | EMail from Debra Sturdivant, DEQ, to John Palmer, EPA, Subject: Mulling over the Temperature Criteria Metric, with 3 attachments |
| 448 | 09283-09537 | 8/8/2002 | Attachment 1: Average Temperatures Table for two Grande Ronde Basin monitoring locations |
| 449 | 09538-09541 | 8/8/2002 | Attachment 2: Summary table of Temperature Data for 8 monitoring locations |
| 450 | 09542-09543 | 8/8/2002 | Attachment 3: Memo to John Palmer from Debra Sturdevant regarding temperature metric comments |
| 451 | 09544-09544 | 8/7/2002 | EMail from Dale McCullough, to Don Essig, IDEQ, et al., Subject: Re: Mulling over the Temperature Criteria Metric, with 1 attachment |
| 452 | 09545-09547 | 8/7/2002 | Attachment 1: Memo to John Palmer, EPA from Dale McCullough, CRITFC regarding Mulling over the Temperature Criteria Metric |
| 453 | 09548-09548 | 8/6/2002 | EMail from John Palmer, EPA to Dave Mabe, IDEQ, et al., Subject: Major Decisions for Temperature Guidance/Next meeting - Aug 28th, with 1 attachment |
| 454 | 09549-09549 | 8/6/2002 | Attachment 1: Major Decisions regarding the draft temperature guidance, 08/05/02 |

| Hyperlink | Bate Stamp Range | Date of Document | Description |
|---------------------|------------------|------------------|---|
| 455 | 09550-09551 | 8/6/2002 | EMail from Jason Dunham, FS, to John Palmer, EPA, Subject: Mulling over the Metric |
| 456 | 09552-09554 | 8/6/2002 | EMail from Don Essig, IDEQ, to Dave Mabe, IDEQ, et al., Subject: Mulling over the Metric, with 1 attachment |
| 457 | 09555-09575 | 8/6/2002 | Attachment 1: Issues related to temperature measurement and monitoring, May 25, 2000 |
| 458 | 09576-09576 | 7/29/2002 | EMail from Shelley Spalding, FWS, to John Palmer, EPA. Subject: Paragraph on Bull trout listing & temperature with 1 attachment |
| 459 | 09577-09577 | 7/29/2002 | Attachment 1: EPA Bull Trout paragraph |
| 460 | 09578-09578 | 7/11/2002 | EMail from Shelley Spalding, FWS, to Bull Trout Temperature Peer Review Panel, et al., Subject: Bull trout peer review documents, with 1 attachment |
| 461 | 09579-09581 | 7/11/2002 | Attachment 1: EPA's Bull Trout Recommendation, July 9, 2002 |
| 462 | 09582-09583 | 7/11/2002 | EMail from Shelley Spalding, FWS, to Dave Mabe, IDEQ, et al., Subject: Literature for peer reviewers |
| 463 | 09584-09584 | 7/3/2002 | EMail from Shelley Spalding, FWS, to John Palmer, EPA, Subject: Bull trout peer review documents, with 5 attachments |
| 464 | 09585-09609 | 7/3/2002 | Attachment 1: Multiple Lines of Evidence for Determining Upper Optimal Temperature Threshold for Bull Trout; Dale McCullough, CRITFC, and Shelly Spalding, USFWS, June 27, 2002 |
| 465 | 09610-09633 | 7/3/2002 | Attachment 2: Dissenting Opinion on Biological Threshold Numbers proposed by Regional Temperature Criteria Development Technical Workgroup |
| 466 | 09634-09701 | 7/3/2002 | Attachment 3: Evaluating Standards for Protecting Aquatic Life in Washington's Surface Water Quality Standards Temperature Criteria, June 2002 |
| 467 | 09702-09704 | 7/3/2002 | Attachment 4: EPA Bull Trout peer review questions, July 3, 2002 |
| 468 | 09705-09707 | 7/3/2002 | Attachment 5: EPA Bull Trout Recommendation |
| 469 | 09708-09708 | 6/20/2002 | EMail from Shelley Spalding, FWS, to John Palmer, EPA, Subject: Letter to Peer Review Panel, with 1 attachment |
| 470 | 09709-09711 | 6/20/2002 | Attachment 1: Peer review letter |
| 471 | 09712-09712 | 6/17/2002 | EMail from Shelley Spalding, FWS, to Mark Hicks, WDOE, Subject: Phone record with Rick Barrows, with 1 attachment |
| 472 | 09713-09714 | 6/17/2002 | Attachment 1: Telephone Record with Frederic Barrows regarding Growth temperature studies for bull trout at the USFWS Bozeman Fish Technology Center |
| 473 | 09715-09715 | 5/31/2002 | EMail from Shelley Spalding, FWS, to Christopher Mebane, DEQ, et al., Subject: Mainstem subbasin summary on water quality; Montana bull trout |
| 474 | 09716-09716 | 5/22/2002 | EMail from John Palmer, EPA, to Dave Mabe, IDEQ, et al., Subject: New Temperature Fact Sheet, with 1 attachment |
| 475 | 09717-09719 | 5/22/2002 | Attachment 1: Fact Sheet; EPA to Issue Second Draft of Regional Water Temperature Guidance for Public Review, May 2002 |
| 476 | 09720-09721 | 5/15/2002 | EMail from Christopher Mebane, DEQ, to Don Essig, DEQ, et al., Subject: Bull Trout literature, with 2 attachments |
| 477 | 09722-09764 | 5/15/2002 | Attachment 1: Empirical Evaluation of Temperature Effects on Bull Trout Distribution in the NW Final Report, February 16, 1999 |
| 478 | 09765-09858 | 5/15/2002 | Attachment 2: The Relationship between Water Temperature and Bull Trout Distribution and Abundance; B. Gamet Thesis |

| Hyperlink | Bate Stamp Range | Date of Document | Description |
|---------------------|------------------|------------------|--|
| 479 | 09859-09861 | 5/14/2002 | Email from John Palmer, EPA, to Shelley Spalding, FWS, Subject: New "Straw" Species Life Stage Criteria and Application, with 1 attachment. |
| 480 | 09862-09863 | 5/14/2002 | Attachment 1: Species Life Stage Criteria & Application Straw Option; Draft, for discussion purposes only, May 8, 2002 |
| 481 | 09864-09866 | 5/13/2002 | Email from Shelley Spalding, FWS, to Dru Keenan, EPA, Subject: Questions for 5/21/02 meeting, Attachment listed above in 5/14/2002 email message |
| 482 | 09867-09867 | 5/10/2002 | Email from Dale McCullough, to Jason Dunham, FS et al., Subject: Bull trout re-review for EPA, with 1 attachment |
| 483 | 09868-09903 | 5/10/2002 | Attachment 1: Review of Rationales for Setting Temperature Criteria, Dale McCullough, May 10, 2002 |
| 484 | 09904-09905 | 5/9/2002 | Email from Shelley Spalding, FWS, to Dru Keenan, EPA, Subject: Bull Trout Panel of Experts |
| 485 | 09906-09906 | 5/9/2002 | Email from John Palmer, EPA, to Dru Keenan, EPA, et al., Subject: Bull Trout Discussion |
| 486 | 09907-09907 | 5/8/2002 | Email from Shelley Spalding, FWS, to John Palmer, EPA, Subject: New "Straw" Species Life Stage Criteria and Application, Attachment listed above in 5/14/2002 email message |
| 487 | 09908-09910 | 5/1/2002 | Email from Stephen Zylstra, FWS, to John Palmer, EPA, Subject: FWS Comments on new proposed guidance |
| 488 | 09911-09911 | 4/17/2002 | Email from Dru Keenan, EPA to Cathy Tortorici, NOAA, et al., Subject: The Story Behind the Record Runs of Salmon, with 1 attachment |
| 489 | 09912-09919 | 4/17/2002 | Attachment 1: Derek Poon PH D.; Recent record salmon runs, are we out of the woods; April 12, 2002 working draft |
| 490 | 09920-09920 | 4/2/2002 | Email from Dale McCullough, to Christopher Mebane, DEQ, et al., Subject: Weber heat shock paper, with 1 attachment |
| 491 | 09921-09931 | 4/2/2002 | Attachment 1: Final report to the National Council of the paper industry for air and stream improvement |
| 492 | 09932-09932 | 3/27/2002 | Email from Dale McCullough, to Christopher Mebane, DEQ, et al., Subject: Bull trout--temp./ration/size/growth, with 1 attachment |
| 493 | 09933-09944 | 3/27/2002 | Attachment 1: Notes on bull trout growth v. temperature at various ration levels, Dale McCullough; 3/26/2002 |
| 494 | 09945-09945 | 1/7/2002 | Email from Shelley Spalding, FWS, to Susan Martin, FWS, et al., Subject: Bull trout temperature thresholds, with 1 attachment |
| 495 | 09946-09955 | 1/7/2002 | Attachment 1: Draft Charr Guild "Species Life Stage" Recommended Thresholds, 1/7/02 |
| 496 | 09956-09956 | 11/15/2001 | Email from Debra Sturdevant, DEQ to Jason Dunham, FS, et al., Subject: New paper on bull trout, with 1 attachment |
| 497 | 09957-09968 | 11/15/2001 | Attachment 1: Effect of Temperature on Growth and Survival of Bull Trout with Application of an Improved Method for Determining Thermal Tolerance in Fishes |
| 498 | 09969-09970 | 11/15/2001 | Email from Jason Dunham, FS, to Debra Sturdevant, DEQ, Subject: New paper on bull trout, with 1 attachment - 2nd attachment is listed above on 11/15/2001 email message |
| 499 | 09971-09971 | 11/15/2001 | Attachment 1: Predicted probability of occurrence small juvenile Bull trout |
| 500 | 09972-09974 | 11/6/2001 | Email from Dru Keenan, EPA, to Pat Larson, Oregon Cattleman Association, Subject: EPA appendix included as part of the temperature criteria project, with 1 attachment |

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| 501 | 09975-09977 | 11/6/2001 | Attachment 1: Letter from EPA to Pat Larson, Oregon Cattlemen Association re- the Appendix to the spatio-temporal technical summary prepared for the development of the Regional Temperature Criteria Guidance |
| 502 | 09978-09979 | 10/31/2001 | EMail from Geoffrey Poole, Cornell.edu, to Dru Keenan, EPA, et al., Subject: Case Study Watersheds, with 1 attachment |
| 503 | 09980-09980 | 10/31/2001 | Attachment 1: Umatilla and Chiwawa River Watersheds |
| 504 | 09981-09981 | 10/29/2001 | EMail from John Palmer, EPA, to Cathy Tortorici, NOAA, et al., Subject: Temperature public notice/fact sheet, with 1 attachment |
| 505 | 09982-09985 | 10/29/2001 | Attachment 1: EPA Issues Draft Temperature Guidance |
| 506 | 09986-09986 | 10/23/2001 | EMail from John Palmer, EPA. to Cathy Tortorici, NOAA, et al., Subject: Resend of Temperature Guidance Appendix A & B, with 2 attachments |
| 507 | 09987-09992 | 10/23/2001 | Attachment 1: Appendix A, Recommend EPA Temperature Thresholds for use in Establishing Thermal Potential and Species Life State Numeric Criteria |
| 508 | 09993-10007 | 10/23/2001 | Attachment 2: Appendix B, Recommended Process to Establish Thermal Potential Numeric Criteria for Temperature Based on Multiple Lines Evidence |
| 509 | 10008-10008 | 10/18/2001 | EMail from John Palmer, EPA, to Cathy Tortorici, NOAA, et al., Subject: Proposed Temperature Guidance, with 1 attachment |
| 510 | 10009-10020 | 10/18/2001 | Attachment 1: Proposed EPA Region 10 Guidance for State and Tribal Temperature Water Quality Standards, Public Review Proposal 10/18/01 |
| 511 | 10021-10021 | 10/9/2001 | EMail from John Palmer, EPA, to Cathy Tortorici, NOAA. et al., Subject: FWS comments on draft temperature guidance, with 1 attachment |
| 512 | 10022-10034 | 10/9/2001 | Attachment 1: FWS comments to draft temperature guidance |
| 513 | 10035-10035 | 10/9/2001 | EMail from John Palmer, EPA, to Cathy Tortorici, NOAA, et al., Subject: Temperature Guidance Transmittal Letter & Issues, with 1 attachment |
| 514 | 10036-10036 | 10/9/2001 | Attachment 1: Transmittal Letter for public review of draft EPA Region 10 Guidance for State and Tribal Temperature Water Quality Standards |
| 515 | 10037-10037 | 9/27/2001 | EMail from John Palmer, EPA, to Cathy Tortorici, NOAA, et al., Subject: 3rd Draft of EPA R10 Proposed Temperature Guidance, with 1 attachment |
| 516 | 10038-10048 | 9/27/2001 | Attachment 1: EPA Region 10 Guidance for State and Tribal Temperature Water Quality Standards; 3rd Draft 9/27/01 |
| 517 | 10049-10049 | 8/10/2001 | EMail from Geoffrey Poole, Cornell Edu, to Dru Keenan, EPA, et al., Subject: Final Synthesis, with 1 attachment |
| 518 | 10050-10073 | 8/10/2001 | Attachment 1: Technical Synthesis, Scientific Issues relating to temperature criteria for Salmon, Trout, and Char native to the Pacific NW, August 1, 2001 |
| 519 | 10074-10074 | 8/10/2001 | EMail from Geoffrey Poole, Cornell Edu, to Dru Keenan, EPA, et al., Subject: Response to Oregon Forest Industries Council/Washington Forest Protection Association with 1 attachment |
| 520 | 10075-10079 | 8/10/2001 | Attachment 1: Response to Oregon Forest Industries Council/Washington Forest Protection Association comments |
| 521 | 10080-10080 | 8/2/2001 | EMail from Sally T Sauter, USGS, to Dru Keenan, EPA, et al., Subject: Smoltification--from Wally Zaugg, with 1 attachment |

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| 522 | 10081-10085 | 8/2/2001 | Attachment 1: Effect of Temperature on Parr-Smolt Transformation in Pacific Salmonids |
| 523 | 10086-10086 | 7/12/2001 | EMail from Jason B Dunham, FS to Munthank, FS, et al., Subject: Bull trout and temperature - final report, with 1 attachment |
| 524 | 10087-10161 | 7/12/2001 | Attachment 1: Models to predict suitable habitat for juvenile bull trout in Washington state, Final Report, July 15, 2001 |
| 525 | 10162-10163 | 6/6/2001 | EMail from Jeffrey Lockwood, NOAA, to Dru Keenan, EPA, Subject: NMFS' views on fish distribution, with 1 attachment |
| 526 | 10164-10167 | 6/6/2001 | Attachment 1: Consideration of Accessible, Inaccessible, Unoccupied and Historic Habitat in NMFS Designation of Critical Habitat |
| 527 | 10168-10168 | 3/13/2001 | EMail from Dru Keenan, EPA to Dru Keenan, EPA, et al., Subject: Names of new Peer Reviewers, with 3 attachments |
| 528 | 10169-10170 | 3/13/2001 | Attachment 1: Peer Review Panel for EPA Region 10 Stream Temperature Criteria |
| 529 | 10171-10171 | 3/13/2001 | Attachment 2: Peer Review Panel; 02-13-01 |
| 530 | 10172-10172 | 3/13/2001 | Attachment 3: Peer Review Panel; 02-13-01 |
| 531 | 10173-10173 | 2/15/2001 | EMail from John Palmer, EPA to Cathy Tortorici, NOAA, et al., Subject: Final Updated Fact Sheet, with 1 attachment |
| 532 | 10174-10175 | 2/15/2001 | Attachment 1: EPA February 2001, Update; Pacific NW Water Quality Temperature Criteria Guidance |
| 533 | 10176-10176 | 1/5/2001 | EMail from Dale McCullough, Columbia River Inter-Tribe, to Christopher Mebane, DEQ, et al., Subject: 2 new publications |
| 534 | 10177-10177 | 9/22/2000 | EMail from Sherri Johnson to Elizabeth Materna, FWS, Subject: RE: EPA temperature project peer review, with 1 attachment |
| 535 | 10178-10185 | 9/22/2000 | Attachment 1: Stream Temperature Bibliography |
| 536 | 10186-10186 | 7/5/2000 | EMail from Christopher Mebane, DEQ, to Debra Sturdevant, DEQ, et al., Subject: Stream Temperature Report, with 2 attachments |
| 537 | 10187-10202 | 7/5/2000 | Attachment 1: Forest Science Project, Regional Assessment of Stream Temperatures across Northern California and their Relationship to various Landscape-Level and Site-Specific Attributes |
| 538 | 10203-10223 | 7/5/2000 | Attachment 2: Draft Issues related to Temperature Measurement and Monitoring, May 25, 2000 |
| Temperature Project Documents | | | |
| 539 | 10224-10272 | 3/11/2003 | Draft EPA Region 10 Guidance for Pacific NW State and Tribal Temperature Water Quality Standards |
| 540 | 10273-10318 | 2/14/2003 | Draft EPA Region 10 Guidance for Pacific NW State and Tribal Temperature Water Quality Standards |
| 541 | 10319-10328 | 9/11/2002 | Bull Trout Temperature Criteria Peer Review Panel |
| 542 | 10329-10331 | 10/16/2002 | EPA Regional Water Temperature Guidance, October 2002 |
| 543 | 10332-10369 | 10/10/2002 | 2nd Draft EPA Region 10 Guidance for Pacific NW State and Tribal Temperature Water Quality Standards |
| 544 | 10370-10399 | 8/29/2002 | 2nd public review Draft EPA Region 10 for State and Tribal Temperature Water Quality Standards |
| 545 | 10400-10423 | 6/18/2002 | 2nd Draft EPA Region 10 Guidance for State and Tribal Temperature Water Quality Standards |
| 546 | 10424-10424 | 6/13/2001 | Bull Trout Locations by Stream Reach in Oregon |
| 547 | 10425-10459 | Oct-01 | Draft EPA Region 10 Guidance for State and Tribal Temperature Water Quality Standards |
| 548 | 10460-10460 | 6/27/2000 | Handwritten Notes, unknown author |
| 549 | 10461-10469 | No Date | Oregon Temperature Criterion for T & E Species |

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| 550 | 10470-10476 | No Date | Figure 1- Growth of bull trout in relation to temperature at full ration |
| 551 | 10477-10477 | No Date | Anticipated Workload |

Attachment B

**Supplemental to Administrative Record for the Fish and Wildlife Service Biological Opinion for
EPA's Proposed Approval of Revised Oregon Water Quality Standards for Temperature, Intergravel
Dissolved Oxygen, and Antidegradation
Excluded Documents Log**

| Date of Document | Description |
|---------------------------|--|
| Biological Opinion | |
| 2/23/2004 | EMail from Jeff Kopf, EPA, to Elizabeth Materna, FWS, et al., Subject: FWS Revised Incidental Take Statement (ITS), with 1 attachment; 5 pgs Reason Withheld: Deliberative |
| 2/23/2004 | Attachment 1: Effect of the Take; 2 pgs Reason Withheld: Deliberative |
| 1/22/2004 | Email from John Palmer, EPA, to Robert Anderson, NOAA, et al., Subject: Conservation Measures Intro Language; 1 pg Reason Withheld: Deliberative |
| 1/22/2004 | Email from John Palmer, EPA, to Cathy Tortorici, NOAA, et al., Subject: Revised conservation measure #1; 1 pg Reason Withheld: Deliberative |
| 12/29/2003 | Email from Jeff Lockwood, NOAA, to John Palmer, EPA, et al., Subject: Biological Evaluation - What to expect, 2 pgs Reason Withheld: Deliberative |
| 12/17/2003 | Email from Jeff Lockwood, NOAA, to Dru Keenan, EPA, et al., Subject: Dec. 17 NOAA red-draft of EPA measures, with 1 attachment, 1 pg Reason Withheld: Deliberative |
| 12/17/2003 | Attachment 1: Dec. 16, 2003 Re-draft of Conservation Measures by Jeff Lockwood, 2 pgs Reason Withheld: Deliberative |
| 12/12/2003 | Draft of Section of Overview of Water Quality Standards from Biological Evaluation, 16 pgs Reason Withheld: Deliberative |
| 12/11/2003 | Draft of Section 5.0 Analysis of Effects, of the Biological Evaluation, 41 pgs Reason Withheld: Deliberative |
| 12/5/2003 | Email from Jeff Lockwood, NOAA, to Marylou Soscia, EPA, et al., Subject: Possible Conservation Measures, 3 pgs Reason Withheld: Deliberative |
| 12/3/2003 | Email from Dru Keenan, EPA to Keith Cohon, EPA, et al., Subject: Very Draft Biological Evaluations for the OR Package, with 2 attachments, 1 pg Reason Withheld: Deliberative |
| 12/3/2003 | Attachment 1: Section 5.0 Analysis of Effects 11/26/03, 65 pgs Reason Withheld: Deliberative |
| 12/3/2003 | Attachment 2: Proposed Action Section dated 11.28.03, 17 pgs Reason Withheld: Deliberative |
| 11/25/2003 | Email from MaryLou Soscia, EPA, to Elizabeth Materna, FWS, Subject: Preliminary Draft List - Clarifications/Interpretations in DEQ Rule with 1 attachment, 1 pg Reason Withheld: Deliberative |
| 11/25/2003 | Attachment 1: Provisions in Proposed Oregon DEQ water Quality Criteria Needing Clarification or Interpretation, 3 pgs Reason Withheld: Deliberative |
| 11/20/2003 | Email from Jeff Lockwood, NOAA, to Robert Anderson, NOAA, et al., Subject: Preliminary Draft List - Clarifications/Interpretations in DEQ Rule with attachment, 1 pg Reason Withheld: Deliberative |
| 11/20/2003 | Attachment 1: Provisions in Proposed Oregon DEQ water Quality Criteria Needing Clarification or Interpretation, 2 pgs Reason Withheld: Deliberative |

| Date of Document | Description |
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| 11/18/2003 | Email from Dru Keenan, EPA, to Elizabeth Materna, FWS, et al., Subject: Notes from 11.17. call with FWS, NOAA and EPA, with 1 attachment, 1 pg Reason Withheld: Deliberative |
| 11/17/2003 | Attachment 1: Conference call notes, 2 pgs Reason Withheld: Deliberative |
| 11/14/2003 | Email from Jeff Lockwood, NOAA, to Dru Keenan, EPA, et al., Subject: potential consultation issues with 1 attachment, 1 pg Reason Withheld: Deliberative |
| 11/14/2003 | Attachment 1: Potential Endangered Species Act and Magnuson-Stevens Act (MSA) Consultation Issues, 2 pgs Reason Withheld: Deliberative |
| 10/29/2003 | Email from Robert Anderson, NOAA, to Jeff Lockwood, NOAA, et al., Subject: Snake River Spawning Criterion, 1 pg Reason Withheld: Deliberative |
| 10/21/2003 | Email from Dru Keenan, EPA, to Steve Ellis, Tetra Tech, et al., Subject: Notes for Conference Call on Biological Assessment for OR Proposed Rule with 1 attachment, 1 pg Reason Withheld: Deliberative |
| 10/21/2003 | Attachment 1: Notes from EPA Rule Biological Assessment conference Call on Oct 20, 2003; 2 pgs Reason Withheld: Deliberative |
| 10/17/2003 | Email from Dru Keenan, EPA, to Steve Ellis, Tetra Tech, et al., Subject: Comments on 10/6/03 draft Biological Assessment with 3 attachments, 1 pg Reason Withheld: Deliberative |
| 10/17/2003 | Attachment 1: EPA Region 10 and Headquarters Comments on 10.6.03 Version of Final Draft Biological Assessment; 2 pgs Reason Withheld: Deliberative |
| 10/17/2003 | Attachment 2: NOAA's comments on final draft Biological Assessment; 2 pgs Reason Withheld: Deliberative |
| 10/17/2003 | Attachment 3: Comments from Elizabeth Materna, FWS, on 10/6/03 Final Draft Biological Assessment; 3 pgs Reason Withheld: Deliberative |
| 10/7/2003 | Email from Steve Ellis, Tetra Tech, to Robert Anderson, NOAA, et al., Subject: Final Draft Biological Assessment; with 1 attachment, 1 pg Reason Withheld: Deliberative |
| 10/7/2003 | Attachment 1: Draft Biological Assessment; 145 pgs Reason Withheld: Deliberative |
| 9/18/2003 | Email from Jeff Lockwood, NOAA, to Steve Ellis, Tetra Tech, et al., Subject: Comments on 9-2-03 Draft Biological Assessment, with 2 attachment, 1 pg Reason Withheld: Deliberative |
| 9/18/2003 | Attachment 1: Comments on 9/2/2003 Draft Biological Assessment, 144 pgs Reason Withheld: Deliberative |
| 9/18/2003 | Attachment 2: Comments on 9-2-03 EPA draft biological evaluation by Robert Anderson and Jeff Lockwood, 1 pg Reason Withheld: Deliberative |
| 8/19/2003 | Email from Dru Keenan, EPA, to Bob Stuart, Tetra Tech, et al., Subject Draft Effects Analysis for Chinook Salmon, Attachment not pertinent to email message; 2 pgs Reason Withheld: Deliberative |
| 8/18/2003 | Email from Bob Stuart, Tetra Tech, to Marylou Soscia, EPA, et al., Subject: Draft Effects Analysis for Chinook Salmon, with 1 attachment; 2 pgs Reason Withheld: Deliberative |
| 8/18/2003 | Attachment 1: Analysis of Effects in BO, 16 pgs Reason Withheld: Deliberative |

| Date of Document | Description |
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| 8/6/2003 | NOAA Briefing Oregon Water Quality Standards Promulgation Update, 2 pgs Reason Withheld: Deliberative |
| 7/30/2003 | NOAA comments on Aug 6, Where & When Conference Call, 2 pgs Reason Withheld: Deliberative |
| Temperature Criteria Guidance Project | |
| 4/21/2003 | Faxed draft letter from FWS to John Iani, EPA on Comments on the final guidance (4/03) with handwritten comments from FWS Regional Office staff; 5 pgs Reason Withheld: Deliberative |
| 4/11/2003 | Faxed draft letter from NMFS to John Iani EPA Comments on final guidance. Internal US government agencies; 5 pgs Reason Withheld: Deliberative |
| Apr-03 | Briefing statement, EPA finalizing guidance, prepared for the Secretary from Gary Fraser, Asst. Dir. FWS, prepared by Stephen Zylstra, FWS; 2 pgs Reason Withheld: Deliberative |
| 3/24/2003 | Email from Stephen Zylstra, FWS transmitting draft letter to FWS Program Leaders and staff, Includes handwritten notes; 1 pg Reason Withheld: Deliberative |
| 3/24/2003 | EMail from Stephen Zylstra, FWS, to Wendi Weber, FWS, et al., Subject: EPA Regional Temperature guidance, Attachment withheld above with 03/07/2003 email message; 1 pg Reason Withheld: Deliberative |
| 3/12/2003 | Briefing for FWS Deputy Regional Director prepared by Stephen Zylstra, FWS. Subject EPA temperature guidance; 7 pgs Reason Withheld: Deliberative |
| 3/12/2003 | Notes prepared by Stephen Zylstra, FWS, for briefing with Deputy Regional Director, FWS; 1 pg Reason Withheld: Deliberative |
| 3/7/2003 | EMail from Shelley Spalding, FWS, to Stephen Zylstra, FWS, Subject: Assurance letter for EPA Regional Temperature Criteria Guidance, with 1 attachment; 1 pg Reason Withheld: Deliberative |
| 3/7/2003 | Attachment 1: Draft letter to EPA regarding comments on the proposed EPA Region 10 Guidance for State and Tri Biological Assessment Temperature Water Quality Standards (April 2003); 2 pgs Reason Withheld: Deliberative |
| 3/4/2003 | EMail from Stephen Zylstra, FWS, to Jim Muck, FWS, et al., Subject: EPA Regional Temperature Criteria Deputy Regional Director briefing; 3 pgs Reason Withheld: Deliberative |
| 2/25/2003 | Question and Answer, States/Tribes will define these terms; 1 pg Reason Withheld: Deliberative |
| 2/21/2003 | EMail from Susan Burch, FWS, to Jim Muck, FWS, Subject: Final input to EPA on bull trout rearing number; 5 pgs Reason Withheld: Deliberative |
| 2/19/2003 | EMail from John Al Young, FWS, to Stephen Zylstra, FWS, Subject: Final input to EPA on Bull trout rearing number; 4 pgs Reason Withheld: Deliberative |
| 2/18/2003 | Email from John Palmer EPA to Stephen Zylstra FWS, Subject: Bull trout Rearing: 3 pages Reason Withheld: Deliberative |
| 2/18/2003 | EMail from Stephen Zylstra, FWS, to Ken Berg, FWS et al., Subject: Final Draft of EPA Regional Temperature Criteria Guidance, Attachment Released; 1 pg Reason Withheld: Deliberative |
| 2/13/2003 | EMail from Stephen Zylstra, FWS, to John Palmer, EPA, Subject: Juvenile Bull Trout Rearing Criteria; 1 pg Reason Withheld: Deliberative |

| Date of Document | Description |
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| 2/12/2003 | EMail from Stephen Zylstra, FWS, to Shelley Spalding, FWS et al., Subject: Let's Discuss; issues related to bull trout criteria; 4 pgs Reason Withheld: Deliberative |
| 2/12/2003 | EMail from Shelley Spalding, FWS, to Elizabeth Materna et al., FWS, Subject: Let's Discuss; issues related to bull trout criteria; 4 pgs Reason Withheld: Deliberative |
| 2/4/2003 | EMail from Shelley Spalding, FWS, to Elizabeth Materna, FWS, Subject: Clarification on our EPA meeting; 2 pgs Reason Withheld: Deliberative |
| 1/23/2003 | EMail from John Palmer, EPA, to Shelley Spalding, FWS, Subject: Temperature follow-up issues; 3 pgs Reason Withheld: Deliberative |
| 1/9/2003 | EMail from Melanie Rowland, NOAA, to Jeff Lockwood, NOAA, Subject: No adverse effect on improved water quality standards; 7 pgs Reason Withheld: Deliberative |
| 12/27/2002 | EMail from Jeff Lockwood, NOAA, to Stephen Zylstra, FWS Subject: No adverse effect on improved water quality standards; 4 pgs Reason Withheld: Deliberative |
| 12/26/2002 | EMail from Stephen Zylstra, FWS, to John Palmer, EPA.. Subject: Help respond to comment: no adverse effect on improved water quality standards; 3 pgs Reason Withheld: Deliberative |
| 12/13/2002 | EMail from Don Steffeck, FWS, to John Palmer, EPA, Subject: FWS comments on regional temperature guidelines, with 1 attachment; 1 pg Reason Withheld: Deliberative |
| 12/13/2002 | Attachment 1: EPA temperature criteria for bull trout; 5 pgs Reason Withheld: Deliberative |
| 12/9/2002 | EMail from Stephen Zylstra, FWS, to John Palmer, EPA Subject: Form of Service's Endorsement of Temperature Guidance; 3 pgs Reason Withheld: Deliberative |
| 11/18/2002 | EMail from Shelley Spalding, FWS, to Elizabeth Materna, FWS, Subject: FWS comments on EPA guidance, with 1 attachment; 1 pg Reason Withheld: Deliberative |
| 11/18/2002 | Attachment 1: November 2002 FWS comments; 2 pgs Reason Withheld: Deliberative |
| 11/18/2002 | EMail from Stephen Zylstra, FWS, to Don Steffeck, FWS, Subject: Regional Temperature Criteria Guidance comments, with 1 attachment; 1 pg Reason Withheld: Deliberative |
| 11/18/2002 | Attachment 1: Draft letter to EPA regarding comments on the proposed EPA Region 10 Guidance for State and Tri Biological Assessment Temperature Water Quality Standards; 3 pgs Reason Withheld: Deliberative |
| 10/30/2002 | Draft letter from NMFS to John Iani, EPA regarding Comments on 10/10/2002 draft guidance; 10 pgs Reason Withheld: Deliberative |
| 10/16/2002 | EMail from Stephen Zylstra, FWS, to Ken Berg, FWS, et al., Subject: 2nd Draft of EPA's Regional Temperature Criteria Guidance, with 1 attachment other 2 attachments released; 2 pgs Reason Withheld: Deliberative |
| 10/16/2002 | Attachment 1: 09/27/2002 Briefing Statement for the Regional Director regarding US EPA Regional Temperature Criteria Guidance; 2 pgs Reason Withheld: Deliberative |
| 9/25/2002 | EMail from Stephen Zylstra, FWS, to Kemper McMaster, FWS, et al., Subject: Briefing regarding EPA's Regional Temperature Criteria Guidance, with 1 attachment; 1 pg Reason Withheld: Deliberative |

| Date of Document | Description |
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| 9/25/2002 | Attachment 1: 09/27/2002 Briefing Statement for the Regional Director regarding US EPA Regional Temperature Criteria Guidance; 2 pgs Reason Withheld: Deliberative |
| 9/11/2002 | EMail from Stephen Zylstra, FWS, to Kemper McMaster, FWS, et al., Subject: EPA's Regional Temperature Criteria Guidance, Attachment Released; 2 pgs Reason Withheld: Deliberative |
| 9/11/2002 | EMail from Shelley Spalding, FWS, to Stephen Zylstra, FWS et al., Subject: Revised Temperature Guidance, Attachments Released; 2 pgs Reason Withheld: Deliberative |
| 8/12/2002 | EMail from Stephen Zylstra, FWS, to Dru Keenan, EPA, Subject: Endangered Species Act (ESA) Assurances; 3 pgs Reason Withheld: Deliberative |
| 8/5/2002 | EMail from Stephen Zylstra, FWS, to Kemper McMaster, FWS, et al., Subject: EPA's Regional Temperature Criteria Guidance, Attachment Released; 1 pg Reason Withheld: Deliberative |
| 3/18/2002 | Briefing statement for FWS Regional Director prepared by Stephen Zylstra, FWS, Subject EPA temperature guidance with handwritten notes by Stephen Zylstra FWS; 2 pgs Reason Withheld: Deliberative |
| 3/18/2002 | Briefing statement for FWS Regional Director prepared by Stephen Zylstra, FWS, Subject: EPA temperature guidance; 2 pgs Reason Withheld: Deliberative |
| 1/16/2002 | Draft joint letter from NMFS and USFWS to Randy Smith, EPA, Comments on the 10/31/2201 public review draft guidance; 8 pgs Reason Withheld: Deliberative |
| 12/27/2001 | EMail from Stephen Zylstra, FWS, to Elizabeth Materna, FWS, et al., Subject: Regional Temperature Criteria Briefing Statement, with 1 attachment; 1 pg Reason Withheld: Deliberative |
| 12/27/2001 | Attachment 1: 01/09/2002 Briefing Statement for Assistant Regional Director regarding US EPA Regional Temperature Criteria Guidance; 2 pgs Reason Withheld: Deliberative |
| 12/21/2001 | EMail from Stephen Zylstra, FWS, to Cynthia Barry, FWS, et al., Subject: Regional Temperature Criteria Guidance, Attachment Released; 1 pg Reason Withheld: Deliberative |
| 11/7/2001 | Handwritten notes by Elizabeth Materna, FWS; 1 pg Reason Withheld: Deliberative |
| 9/26/2001 | Handwritten notes by Elizabeth Materna, FWS; 1 pg Reason Withheld: Deliberative |
| 7/25/2000 | Handwritten notes of Stephen Zylstra FWS regarding internal agency discussion of Regional Temperature Project; 2 pgs Reason Withheld: Deliberative |
| 6/27/2000 | Handwritten notes of Stephen Zylstra FWS Regional Temperature Criteria; 3 pgs Reason Withheld: Deliberative |
| 3/30/2000 | Handwritten notes of Stephen. Zylstra, FWS Temperature Criteria Meeting notes; 2 pgs Reason Withheld: Deliberative |
| 3/30/2000 | Email from Sarah Hall, FWS to Stephen Zylstra, FWS, Subject: Recovery question; 1 pg Reason Withheld: Deliberative |
| 10/22/1999 | Handwritten notes by Stephen Zylstra, FWS Water Temperature Criteria Meeting; 3 pgs Reason Withheld: Deliberative |
| No Date | Handwritten notes by Elizabeth Materna, FWS, Moderately Cold Water Guild; 1 pg Reason Withheld: Deliberative |
| No Date | Handwritten notes by Elizabeth Materna, FWS, Technical team meeting; 2 pgs Reason Withheld: Deliberative |

| Date of Document | Description |
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| No Date | Temperature as a factor in bull trout listing; 1 pg Reason Withheld: Deliberative |
| No Date | Notes for 3/18/2002 briefing with FWS Regional Director; 1 pg Reason Withheld: Deliberative |
| No Date | Notes for 3/18/2002 briefing with FWS Regional Director with handwritten notes by Stephen Zylstra, FWS; 1 pg Reason Withheld: Deliberative |
| No Date | Draft letter from FWS to EPA commenting on a 10/2/2002 guidance; 5 pgs Reason Withheld: Deliberative |
| Documents in EPA Record with handwritten notes for authors understanding and clarification | |
| 1/16/2003 | Possible Changes to Temperature Guidance with Handwritten notes by Stephen Zylstra, FWS; 7 pgs Reason Withheld: Deliberative |
| 1/16/2003 | Possible Changes to Temperature Guidance with Handwritten notes by Elizabeth Materna, FWS; 6 pgs Reason Withheld: Deliberative |
| 5/2/2002 | Bull Trout Criteria for Juvenile Rearing with Handwritten notes by Elizabeth Materna, FWS; 1 pg Reason Withheld: Deliberative |
| 4/18/2002 | Species Life Stage Application Options Issues/Assumptions for All Options with Handwritten notes by Elizabeth Materna, FWS; 4 pgs Reason Withheld: Deliberative |
| 9/19/2001 | Table 1. How Cold with Handwritten notes by Elizabeth Materna, FWS; 1 pg Reason Withheld: Deliberative |
| 7/28/2000 | Proposed Revision for Project Goal Statement and Technical Interpretation with Handwritten notes by Elizabeth Materna, FWS; 1 pg Reason Withheld: Deliberative |
| 3/29/2000 | Cumulative Risk Initiative (NMFS) Figure IV-12 graph with Handwritten notes by Elizabeth Materna, FWS; 1 pg Reason Withheld: Deliberative |
| 1/20/2000 | Goal Statement, Dale McCullough, CRTFC. Handwritten notes by Elizabeth Materna, FWS; 4 pgs Reason Withheld: Deliberative |
| No Date | Pacific Northwest Water Quality Temperature Criteria Guidance Workshop: Presentation on the Technical Workgroup Synthesis Paper, with handwritten notes by Elizabeth Materna, FWS; 18 pgs Reason Withheld: Deliberative |
| No Date | Table 3. Recommended criteria that apply to Summer Max Temperatures with Handwritten notes by Elizabeth Materna, FWS; 1 pg Reason Withheld: Deliberative |
| No Date | Policy Goal and Technical Goals with handwritten notes by Elizabeth Materna, FWS; 2 pgs Reason Withheld: Deliberative |
| No Date | Population Level Characteristics with handwritten notes by Elizabeth Materna, FWS; 3 pgs Reason Withheld: Deliberative |
| No Date | Appendix B. Presentation with Handwritten notes by Elizabeth Materna, FWS; 6 pgs Reason Withheld: Deliberative |
| No Date | Recovery Target Issue with Handwritten notes by Stephen Zylstra, FWS; 1 pg Reason Withheld: Deliberative |
| No Date | Juvenile Rearing MDMT 12 °C (Max Daily Max Temp) with Handwritten notes by Elizabeth Materna, FWS; 4 pgs Reason Withheld: Deliberative |